Polaroid

x530 Digital Camera
User Guide

www.polaroid-digital.com

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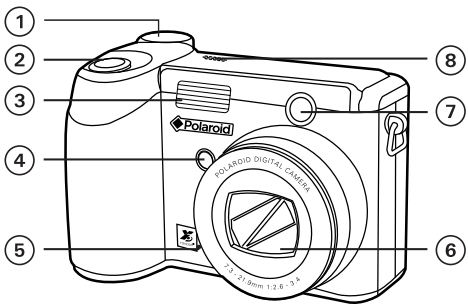
Product Overview

1. Mode dial
2. Shutter button
3. Flash
4. Focus lamp / Self-timer LED
5. Microphone
6. Zoom lens
7. Viewfinder
8. Speaker



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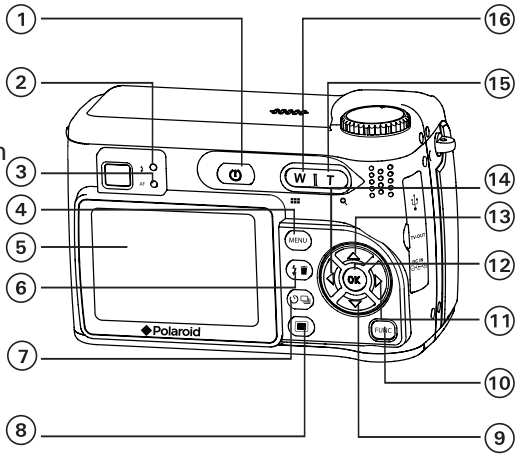
1. Power button
2. Flash / Battery charge LED
3. Auto-Focus LED
4. Menu button
5. LCD screen
6. Flash / Erase button
7. Self-timer / Continuous button
8. Display button
9. Down button
10. Function button
11. Right button
12. OK button
13. Up button
14. Left button
15. Zoom in button
16. Zoom out / Thumbnail button



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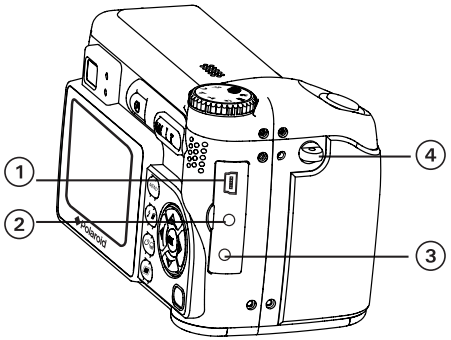
1. USB port
2. TV OUT socket
3. DC IN jack
4. Neck strap holder



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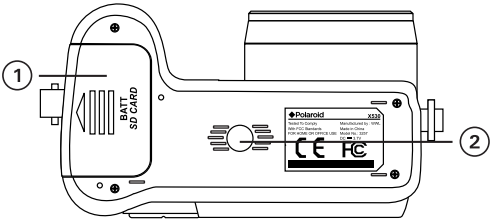
1. Battery / SD card door
2. Tripod mount



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1. Status LED
2. SD card slot
3. USB port

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1 Getting Started

Designed as the flagship of the Polaroid products, the x530 digital camera has a Foveon X3 direct image sensor, 2.0 inch colour LCD for reviewing images, and a host of pre-set controls. Working with the Foveon X3 Fill Light scene-recognition technology, the x530 is the perfect camera for the photographer looking for point & shoot simplicity with excellent performance.

This camera features:

- Glass lens system for exposure from 0.4 inches to infinity including 3 times optical and 4 times digital zoom modes
- 5 scene shooting modes plus video recording functionality
- Auto and manual focus
- Built-in flash with four modes (off, auto, red-eye reduction and on)
- Rechargeable battery and card reader
- Adjustments of resolution for printing or emailing
- Light metering, white balance, exposure compensation to suit light conditions

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• Camera Package Contents

x530

Quick Guide

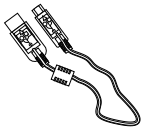
Warranty Card

Card Reader

SD Card

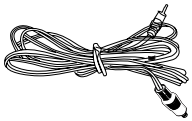
Lithium Ion
Rechargeable Battery

The CD-ROM includes
Polaroid x530 Camera Driver (PC only)
Polaroid PhotoLab (PC&Mac)
Card Reader Driver (PC only)
Arcsoft® PhotoStudio® 5.5 (PC only)
/Arcsoft® PhotoStudio® 4.3 (Mac only)
Adobe® Acrobat® Reader (PC&Mac)
User Guide (in PDF format)



USB Cable

AC Adaptor



Video Cable

Neck Strap

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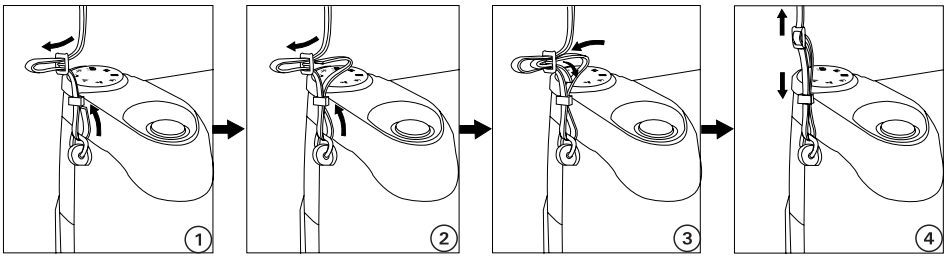
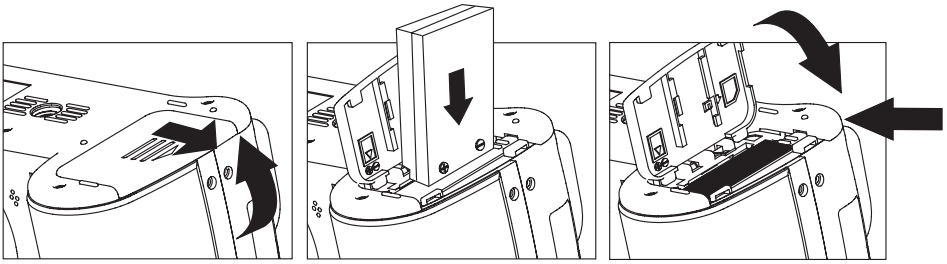
• Attaching the Neck Strap



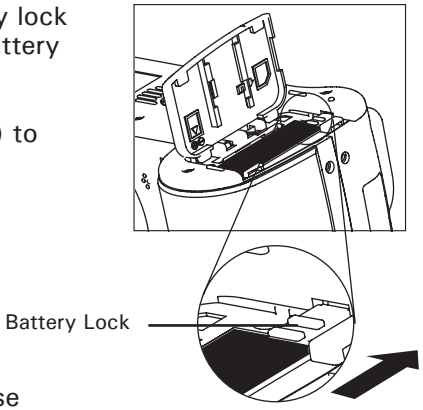
• Installing and Removing the Battery

1. Open the camera battery door by pushing it outwards as illustrated.
2. Insert the battery as shown.
3. Close the battery door by pressing it downwards then slide it back to lock.



4. To remove the battery, slide the battery lock in the direction of the arrow and the battery will eject out of the battery slot.

You can also use the AC adaptor (included) to supply power for the camera.



For more guidelines on battery usage, please see “Using Your Battery” on page 88.

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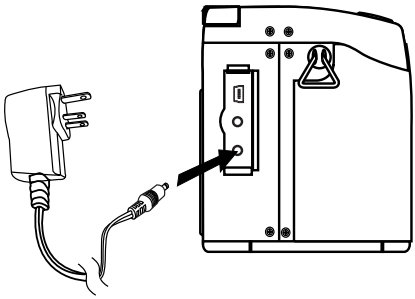
• Connecting the AC Adaptor (Included)

Turn off the camera before connecting or disconnecting the adaptor. Connect the adaptor as shown to power the camera and charge the battery from a household power outlet. The camera will automatically switch over to AC adaptor powered operation when connected. The AC adaptor can be used with or without the battery in place.



IMPORTANT!

- Only use the included adaptor.
- We recommend the use of the AC adaptor to power the camera whenever connecting the camera to a computer.
- AC adaptor supplied with Polaroid x530 camera may vary for different countries and regions.

• Charging the Battery

One Lithium Ion rechargeable battery is supplied with the camera. Please fully charge the battery for up to 8 hours before you use the battery for the first time, and about 3 hours for subsequent recharging.

1. Insert the battery into the camera battery compartment, ensuring you follow the + / - signs that are shown on outside of the battery.
2. Connect the DC plug of the AC adaptor to the DC IN jack of the camera, and plug the adaptor into a household power outlet.
3. The icon will appear on the LCD screen, indicating battery charging in progress. The Battery Charge LED is orange during battery charging. It will turn to green when the battery is fully charged.

NOTE:
The camera will stop charging once the battery is fully charged. And it is recommended to disconnect the AC adaptor from the camera.

Only use the supplied Lithium Ion rechargeable battery (Model No.: Li10) with the camera. This rechargeable battery should last for the life of the camera, but as is the case with all rechargeable batteries the actual charge held may decline with use. Should it ever become necessary to replace the rechargeable battery, please contact your distributor or visit http://www.polaroid-digital.com for more information on replacement or order a backup battery.

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• Using the SD (Secure Digital) Card

Your camera comes with a 32MB external SD memory card for storing pictures and video clips. You can expand the memory using a commercially available SD card. The camera automatically detects whether a memory card is inserted, and saves pictures and video clips accordingly.

Memory Card Precautions

1. Use only an SD memory card with this camera.
2. Electrostatic charge, electrical noise, and other phenomena can cause data corruption or even loss. Always make sure that you back up important data on other media (MO disc, computer hard drive, and so on).
3. If a memory card starts to behave abnormally, you can restore normal operation by formatting it. However, we recommend that you always take along more than one memory card whether using the camera far away from your home or office.
4. We recommend that you format a memory card before using it for the first time after purchasing it, or whenever the card you are using seems to be the cause of abnormal pictures. Remember to format a memory card if it was used in another digital camera or other devices.

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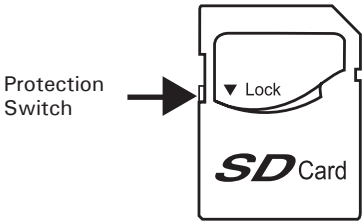
IMPORTANT!

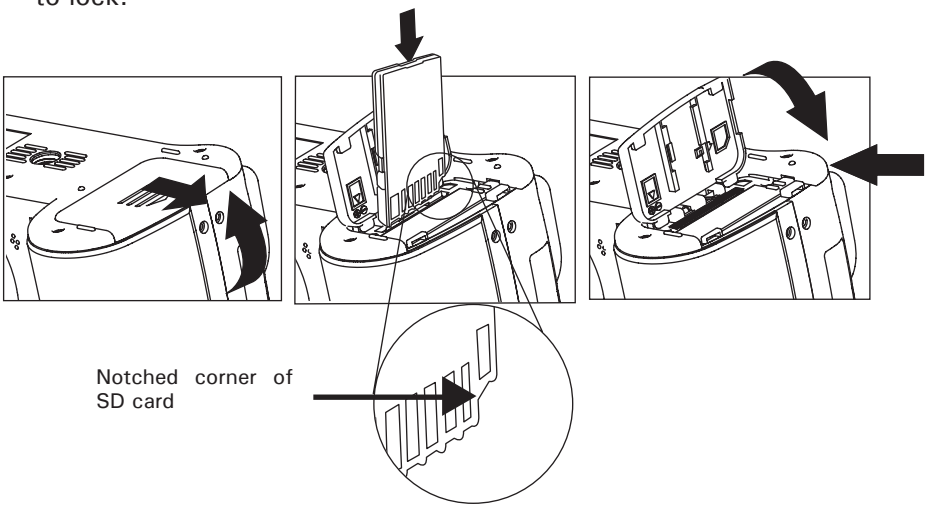
- Make sure you turn off the camera before inserting or removing a memory card.
- Be sure to orient the card correctly when inserting it. Never try to force a memory card into the slot when you feel resistance.
- SD memory cards have a write protection switch that you can use to protect files from accidental deletion. However, you must remove the write protection whenever you want to record new files onto it, format it, or delete its files.



- **Files contained in the SD card recorded by other cameras may conflict with the x530 camera, and valuable data in you existing SD card may be distorted or lost when the card is inserted in the x530 camera. We strongly recommend the use to use a NEW or formatted SD card for the x530 camera. The manufacturer is not liable for losing or corrupting any valuable data or files in your SD card due to your improper operation.**

Inserting the SD Card

1. Open the SD card door by pushing it outwards as illustrated.
2. Insert the SD card, ensuring the card is inserted correctly as illustrated.
3. Close the SD card door by pressing it downwards and then slide it back to lock.



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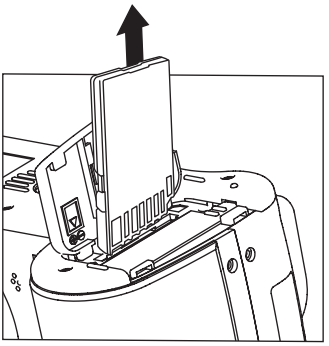
Removing the SD Card

1. Turn off your camera and open the SD card door.

2. Gently push the SD card inwards and then release it. The SD card will eject out of the SD card slot.



IMPORTANT!

- Never insert any other objects into the camera's card slot. Doing so will create the risk of damage to the camera and card slot.
- Should water or any foreign objects ever get into the card slot, immediately turn off the camera, remove the battery or disconnect the AC adaptor, and contact your dealer or the nearest service provider.

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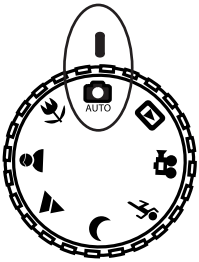
Formatting a SD Card

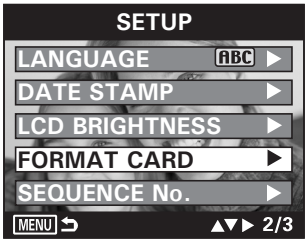
Formatting a memory card erases all data stored on it, including protected data.

1. Turn the Mode Dial to AUTO.



2. Follow the guidelines in “Setup Menu” on page 20 to access the SETUP menu.

3. Press the down button to select the FORMAT CARD option.



4. Press the right button.

5. Select OK or CANCEL using the left or right button. Press the OK button to confirm your choice and exit from the menu window.

NOTE:

- This setting is also available in , , , , , and modes.
- You can format a memory card on the camera or on a computer. However, formatting a memory card on a computer takes much longer.
- Note that data deleted by formatting operation cannot be recovered. Make sure you do not have any useful data currently stored on a memory card before you format it.

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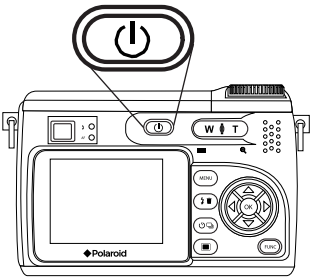
• Turning the Camera On and Off

Fully press the ⏻ button until the LCD screen turns on. The zoom lens will extend when the Mode Dial is positioned to AUTO, , , , , , or . Press the ⏻ button again to turn off the camera, and the zoom lens will retract. The Auto-Focus LED blinks during powering off and will turn off after the camera is fully powered off.



The camera will prompt the interface for setting the current date and time when it is initially powered on after your purchase. Please refer to “Setting the Current Date and Time” on page 22 for more details.

IMPORTANT!
All operations, including taking pictures and video clips, and adjusting settings for shooting and playback, are performed while the camera is powered on.

• Checking the Battery Level

Check the battery power level that appears on the LCD screen before shooting.

- Battery charging is in progress.
- Battery power is full.
- Battery has adequate power.
- Battery power is low.
- Batter power is exhausted.

NOTE:
When battery power is exhausted, the icon appears on the LCD screen and then the camera will turn off automatically in a few seconds. Please recharge the battery immediately.

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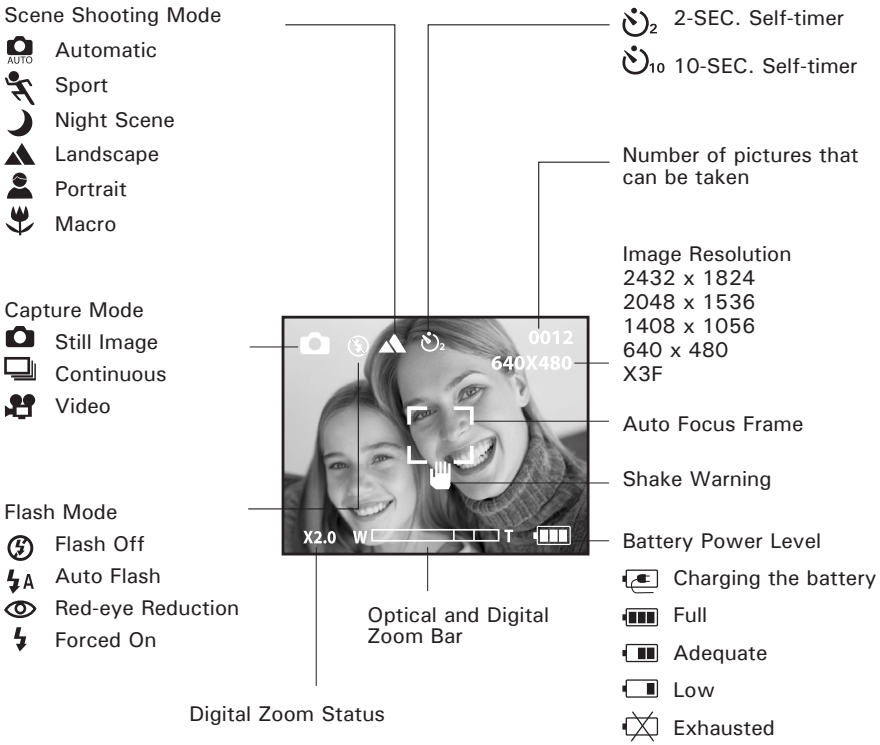
2 Camera Setting

• Checking Camera Status

Turn on the camera and view the camera LCD screen to check which camera settings are active. Those particular features whose icons are not displayed are not activated.

Still Image Mode



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Exposure Compensation Value

ISO Sensitivity
- Auto
- 100
- 200
- 400

White Balance
- Auto
- Daylight
- Cloudy
- Tungsten
- Fluorescent

Light metering
- Matrix
- Centre
- Spot

Compression
- Super fine
- Fine
- Normal

Colour Effect
- Vivid
- Neutral
- Sepia
- Black and White
- Red
- Green
- Blue

Shutter speed

Aperture value

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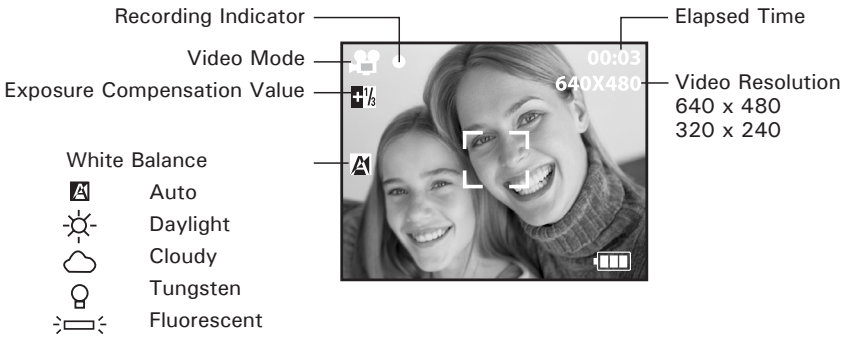
Video Mode



Playback Mode

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• Camera Modes

The camera has eight modes for recording and playing pictures and video clips. Different modes can be selected by positioning the Mode Dial to the one you prefer. Functions can be accessed by pressing the MENU or FUNC button to customize capture and play settings.

Mode dial

- Auto (page 33)
- Sport (page 34)
- Night Scene (page 34)
- Landscape (page 35)
- Portrait (page 35)
- Macro (page 36)
- Playback (page 57)
- Video (page 53)

• How to Navigate Menus

Menus and function bars are used to adjust capture and play settings, as well as other camera settings like the Date / Time, Auto Power Off, and so on.

Press the MENU button to enter the menu and press the right button to enter a submenu. Use the up and down buttons to scroll up and down, and use the left and right buttons to scroll left and right. Use the OK button to confirm your choice.

Press the FUNC button to activate a function bar. Use the four-way navigation buttons to scroll up, down, left and right. The currently selected option will be accessed and takes effect immediately.

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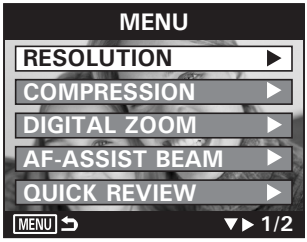
• Setup Menu

The setup menu can be accessed in all eight working modes to customize your camera settings. Here we take the AUTO mode for an example.

1. Press the MENU button to access the main menu.



2. Press the up or down button to select the SETUP option.

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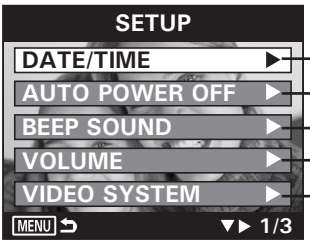
3. Press the right button to access the SETUP submenu.
4. Use the up and down buttons to select a setup option and then press the right button to enter the next submenu for that particular option.



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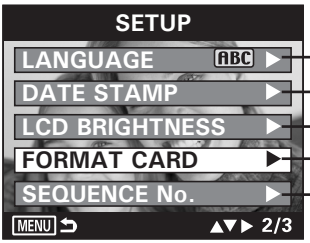

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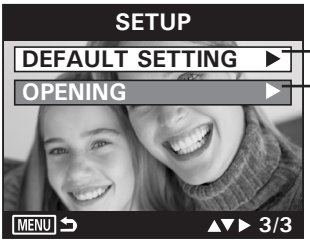

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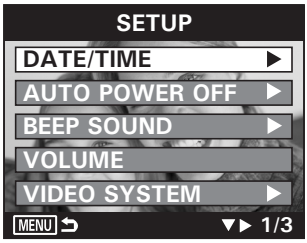
• Setting the Current Date and Time

The camera will prompt you for setting the current date and time when it is initially powered on after your purchase, or whenever the integrated backup battery's power is low.

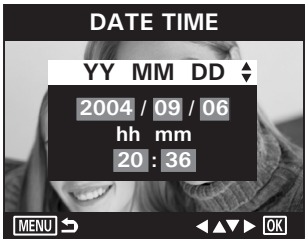
1. Follow the guidelines in "Setup Menu" on page 20 to access the SETUP menu.



2. Press the right button to access the DATE TIME submenu.

3. Use the left or right button to select a field, such as date format, year, month, day, hour or minute. Use the up or down button to select the date format and to adjust the value in the field.

4. Press the (OK) button after all fields are set and exit from the menu window.



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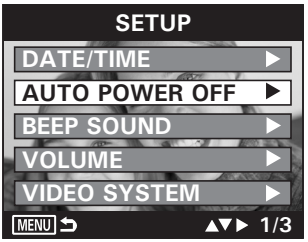
• Setting Auto Power Off

The camera is equipped with a power saving operation to conserve battery power.

You can change the power saving setting with the following steps:

1. Follow the guidelines in “Setup Menu” on page 20 to access the SETUP menu.
2. Select the AUTO POWER OFF option using the down button.



3. Press the right button to access the AUTO POWER OFF submenu.

4. Specify the automatic power off period using the up or down button. Press the OK button to confirm your choice and exit from the menu window.

1 MINUTE / 3 MINUTES The camera is designed to switch off automatically to save battery life after the specified period of inactivity.

OFF The power saving function is not active.

NOTE:
Auto power off is automatically disabled under any one of the following conditions:

- While the camera is recording a video clip.
- While the camera is running a slide show.

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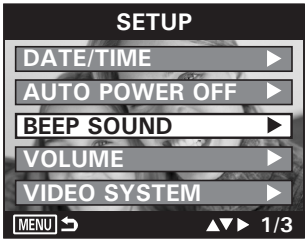
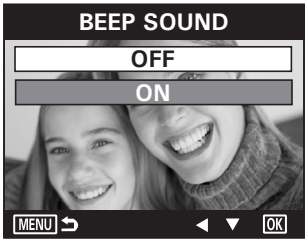
• Setting the Beep Sound On / Off

The beep sound can be turned on and off in the SETUP menu. When the beep sound is turned on, the camera will beep when you press the buttons.

1. Follow the guidelines in “Setup Menu” on page 20 to access the SETUP menu.
2. Select the BEEP SOUND option using the down button.



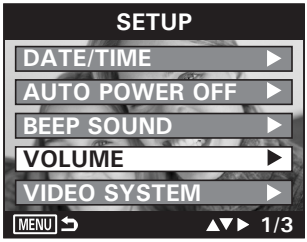
3. Press the right button to access the BEEP SOUND submenu.
4. Select ON or OFF using the up or down button. Press the (OK) button to confirm your choice and exit from the menu window.



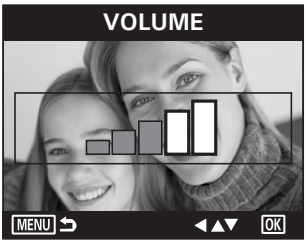
• Adjusting Volume Control

Volume can be adjusted for beep sounds and video clips.

1. Follow the guidelines in “Setup Menu” on page 20 to access the SETUP menu.
2. Select the VOLUME option using the down button.



3. Press the right button to access the VOLUME submenu.
4. Adjust the volume using the up or down button. Press the (OK) button to confirm your choice and exit from the menu window.



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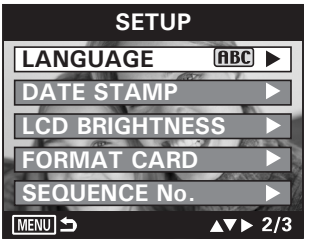
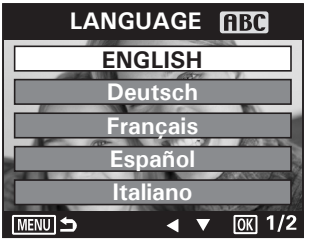
• Setting the Display Language

Different languages can be selected for the menu to suit your preference.

1. Follow the guidelines in “Setup Menu” on page 20 to access the SETUP menu.
2. Select the LANGUAGE option using the down button.



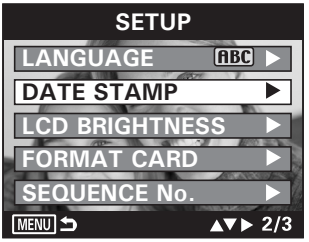
3. Press the right button to access the LANGUAGE submenu.
4. Select the language you prefer using the up or down button. Press the (OK) button to confirm your choice and exit from the menu window.



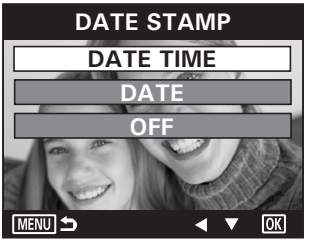
• Setting the Date Stamp On / Off

Use the date stamp setting to imprint the date on your pictures. Make sure the date is correct before setting the date stamp on.

1. Follow the guideline in “Setup Menu” on page 20 to access the SETUP menu.
2. Select the DATE STAMP option using the down button.



3. Press the right button to access the DATE STAMP submenu.
4. Select DATE / TIME, DATE or OFF using the up or down button. Press the (OK) button to confirm your choice and exit from the menu window.



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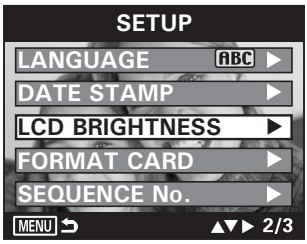
• Adjusting the LCD Brightness

This setting enables you to adjust the brightness for the LCD screen.

1. Follow the guidelines in “Setup Menu” on page 20 to access the SETUP menu.
2. Select the LCD BRIGHTNESS option using the down button.

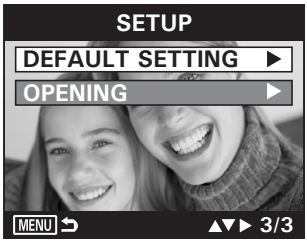


3. Press the right button to access the LCD BRIGHTNESS submenu.
4. Adjust the brightness for the LCD screen using the left or right button. Press the (OK) button to confirm your choice and exit from the menu window.

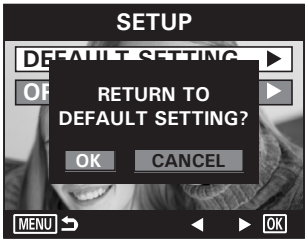
• Restoring Default Settings

Default setting can be restored by the following steps (For more guidelines, please see “Camera Default Settings” on page 87).

1. Follow the guidelines in “Setup Menu” on page 20 to access the SETUP menu.
2. Select the DEFAULT SETTING option using the down button.



3. Press the right button.
4. Select OK or CANCEL using the up or down button. Press the (OK) button to restore default settings and exit from the menu window.



NOTE:
Selecting CANCEL will cancel the operation and exit from the menu window.

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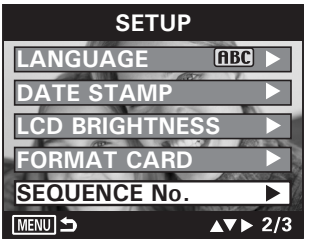
• Turning Sequence Number On / Off

Below shows how to select the way file numbers are assigned.

1. Follow the guidelines in “Setup Menu” on page 20 to access the SETUP menu.

2. Select the SEQUENCE No. option using the down button.



3. Press the right button to access the SEQUENCE No. submenu.

4. Select ON or OFF using the up or down button. Press the (OK) button to confirm your choice and exit from the menu window.

ON The file numbers are reassigned to the start (100-0001) each time when any images are removed from the memory card. New images recorded on the memory card with existing files are given the next available number.

OFF A file number is assigned to a recorded image and memorized and images recorded onto a memory card start from the next number.

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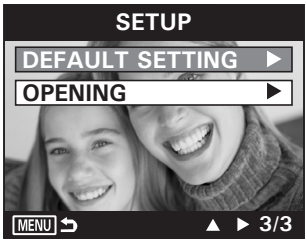
• Cancelling the Startup Image

A startup animation image appears on the LCD screen for a few seconds when the camera is turned on.

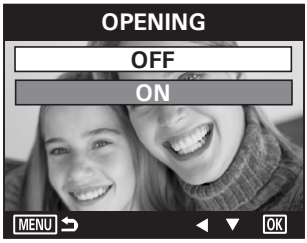
You may cancel displaying the startup image according to the following steps:

1. Follow the guidelines in “Setup Menu” on page 20 to access the SETUP menu.
2. Select the OPENING option using the down button.



3. Press the right button to access the OPENING submenu.

4. Select ON or OFF using the up or down button. Press the (OK) button to confirm your choice and exit from the menu window.



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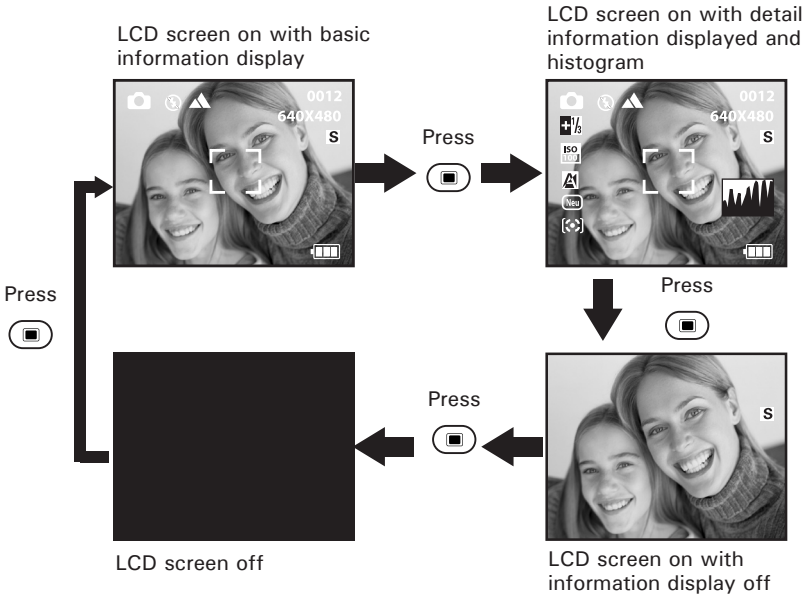
• Switching the Information Display and LCD Screen On and Off

The LCD Screen can be changed by pressing the button. The following shows what are displayed in the different modes.

In AUTO, , , , or mode:



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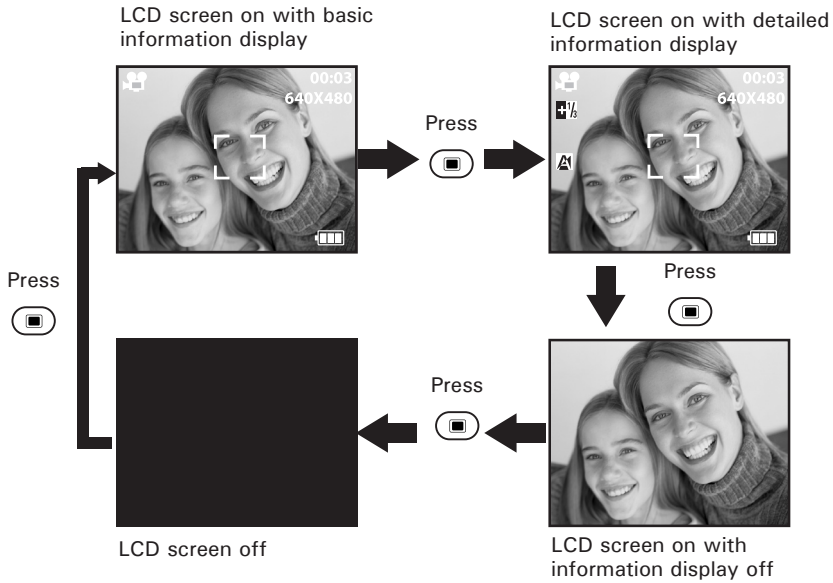
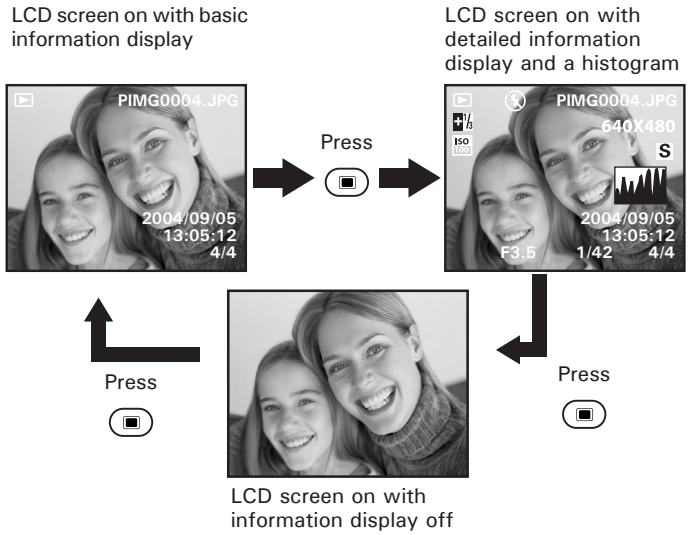
In mode:



In mode:



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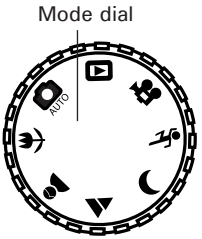
3 Taking Pictures

Before you take pictures, please read this note first:

NOTE:
Never remove the battery, disconnect the AC adaptor from the camera, or unplug the adaptor while the Auto-Focus LED is blinking, indicating the camera is processing data. Doing so will prevent the current picture being saved and may corrupt other pictures already stored on the camera's memory card.

• Taking Pictures in Scene Shooting Modes

Turn the Mode Dial to select a mode that is suitable to your shooting conditions:



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When shooting under these conditions:	Select this mode	Icon shown on the LCD screen
For general picture-taking. Automatic exposure and point-and-shoot operation and manual adjustment on flash mode, image size, ISO sensitivity, etc.	Auto	
Freeze the subject in motion by using the possibly fastest shutter speed in combination with ISO 100 sensitivity for a particular exposure.	Sport	
Capture a dimly lit background by using slow shutter speeds and illuminate a foreground subject with a brief flash fire.	Night Scene	
Produce the possibly largest depth of field by locking the focus at infinity and keeping the possibly smallest aperture value.	Landscape	
Define the subject in a portrait shot by using the possibly largest aperture value to produce a blurred background.	Portrait	
For taking Macro pictures.	Macro	

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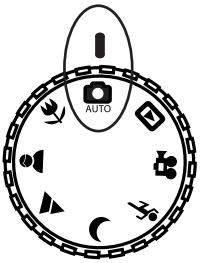
Auto Mode

Use this mode for general picture taking.



1. Turn the Mode Dial to AUTO.
2. Frame your subject using the viewfinder or LCD screen.
3. Align the auto focus frame or the viewfinder optical centre on the subject you want to capture. Press the Shutter button halfway to set the exposure and focus.

NOTE:

- The icon will appear when the shutter speed is slow, which reminds you of holding the camera steady or use a tripod.
- The Auto-Focus LED blinks in green or the Auto-Focus frame appears red if there is difficulty in focusing the subject. If this happens, release your finger, recompose the scene and press the Shutter button halfway to reset the focus.
- When the Auto-Focus LED lights up green, it indicates the camera is ready to capture images.
- When the flash is used for shooting in low lighting conditions, the camera cannot set an auto focus but switches to a fixed focus. The focus range is at 3 - 10 ft (1 - 3 m) in wide angle and 4.2 - 5.5 ft (1.3 - 1.7 m) in telephoto.

4. The Auto-Focus LED remains steady on, indicating the camera focus is locked on the subject. Press the Shutter button completely down to take a picture, holding the camera steady.

The picture just taken will be shown on the LCD screen for 2 or 5 seconds. For more guidelines on quick review, please see “Specifying the Quick Review Period” on page 45.

The Auto-Focus LED blinks, indicating the camera is saving the picture just taken to the memory card. You can take the next picture only when the Auto-Focus LED stops blinking.

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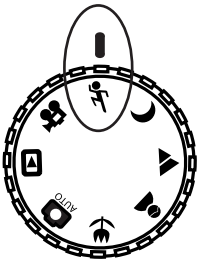
Sport Mode

Use this mode to freeze subjects in motion.

1. Turn the Mode Dial to .

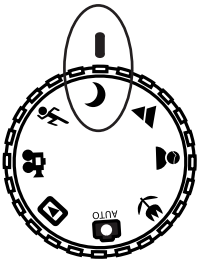


2. Capture procedures are the same as for the AUTO mode. Please see “Auto Mode” on page 33.

Night Scene Mode

Use this mode for night scenes or dimly lit conditions.

1. Turn the Mode Dial to .



2. Capture procedures are the same as for the AUTO mode. Please see “Auto Mode” on page 33.

NOTE:

- In the mode, (Flash Off) is the default flash mode.
- To shoot a night scene without a subject in the foreground, set the flash off. The auto focus range is at 6.5 ft (2 m) to infinity at wide angle and 43 ft (13 m) to infinity in telephoto.
- When the flash is used for shooting in low lighting conditions, the camera cannot set an auto focus but switches to a fixed focus. The focus range is at 3 - 10 ft (1 - 3 m) in wide angle and 4.2 - 5.5 ft (1.3 - 1.7 m) in telephoto.

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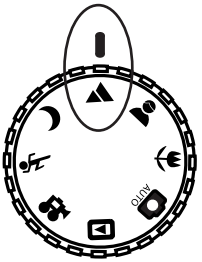
Landscape Mode

Use this mode to capture distant subjects.

1. Turn the Mode Dial to ▲.



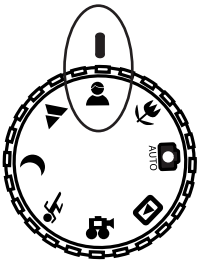
2. Capture procedures are the same as for the AUTO mode. Please see "Auto Mode" on page 33.

NOTE:
In the ▲ mode, (Flash Off) is the default flash mode.

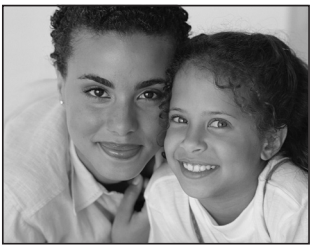
Portrait Mode

Use this mode to capture sharp subjects with a blurred background.

1. Turn the Mode Dial to .



2. Capture procedures are the same as for the AUTO mode. Please see "Auto Mode" on page 33.



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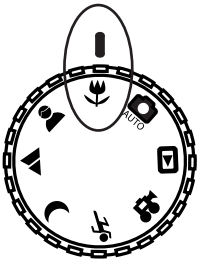
Macro Mode

Use this mode to capture subjects close to the lens at the distance of 0.4 to 9 in. (1 to 23 cm).

1. Turn the Mode Dial to .



2. Capture procedures are the same as for the AUTO mode. Please see "Auto Mode" on page 33.

NOTE:
In the mode, (Flash Off) is the default flash mode.

• Taking Pictures with the LCD Screen Off

You can also take a picture with the LCD screen off. The capture procedures are the same as for the Auto mode but frame your subject using the viewfinder instead.

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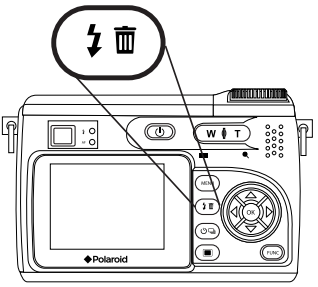
• Setting Flash Mode

Use the flash when you take pictures at night, indoors, or outdoors in heavy shadows.

Flash Range:

- Normal: Wide: 3 ~ 10 feet (0.9 ~ 3 metres)
  Telephoto: 3 ~ 8 feet (0.9 ~ 2.4 metres)
- Macro: 0.4 ~ 9 in. (1 ~ 23 cm)

1. Turn the Mode Dial to AUTO.
2. Press the button to cycle through the flash options and select the one you need.



NOTE:
When you press the button, the Flash LED blinks, which indicates the flash is charging. The icon (according to the flash setting you selected) will appear on the LCD screen.

3. Now you can take pictures using the flash mode you selected. The flash will recharge after each flash picture.

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The camera has four flash modes (default setting is Flash Off).

When shooting under these conditions:	Select this mode	Icon shown on the LCD screen
The flash does not fire. Use this setting for outdoor pictures, or where flash is prohibited or may be distracting, or when shooting towards a reflective surface, such as a window or a mirror. If there is not enough light when using this setting, your pictures will be too dark.	Flash Off	
The flash fires automatically as needed. Use this setting to take most pictures.	Auto Flash	
Use this setting to avoid red glare in your subject's eyes. The camera fires a brief preflash before the regular flash.	Red-eye Reduction	
The flash fires for every picture. Use this setting in high-contrast situations to provide fill-light or use it indoors in low light.	Forced On	

NOTE:

- Flash is also available in modes.
- Never touch or block the flash with your fingers. Doing so can soil these components and interfere with the correct flash operation.

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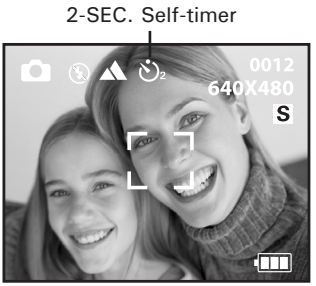
• Setting Self-timer

Your camera is designed with a self-timer function which allows you to take pictures with the 2-second or 10-second built-in timer.

1. Turn the Mode Dial to AUTO.

2. Press the button repeatedly until the 2 or 10 icon appears on the LCD screen.



2 2-second self-timer indicates a countdown of two seconds. The Self-timer LED will blink for two seconds before the picture is taken.

10 10-second self-timer indicates a countdown of 10 seconds. The Self-timer LED will blink slowly for eight seconds and then quickly for two seconds before the picture is taken.

3. Capture procedures are the same as for the AUTO mode. Please see "Auto Mode" on page 33.

NOTE:
- This setting is also available in , , , and modes.
- Place the camera on a flat surface or use a tripod when using the self-timer function.

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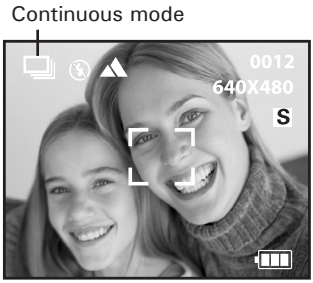
• Taking Continuous Pictures

Continuous shooting function lets you take up to a certain number of pictures in quick succession.

1. Turn the Mode Dial to AUTO.
2. Press the button repeatedly until the icon appears on the LCD screen.



3. Press and hold the Shutter button and the camera will take pictures continuously. The camera will stop shooting once you release the Shutter button.

NOTE:

- The number of continuous pictures you can take depends on the memory available and resolution setting.
- This setting is also available in , , , and modes.
- The flash is disabled in the Continuous mode.

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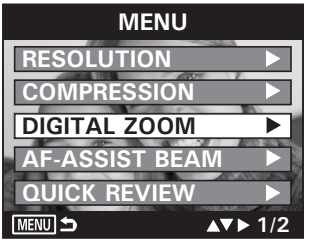
• Zoom Feature

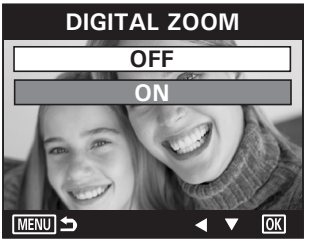
Your camera is designed with optical and digital zoom features that allows you to zoom in the central area of an image and photograph only the enlarged portion of the picture. Optical zoom alters the focal distance of the zoom lens, and its factor range is 1X to 3X. Digital zoom is activated after the camera reaches the maximum optical zoom (3X). It enlarges the part of the image up to four times at the centre of the image screen. For the digital zoom feature, the viewfinder does not reflect the actual zoomed image. We recommend the user to use the LCD screen to monitor the zoomed feature.

Setting Digital Zoom On and Off

1. Turn the Mode Dial to AUTO.
2. Press the MENU button to access the main menu.
3. Press the down button to select the DIGITAL ZOOM option.



4. Press the right button to access the DIGITAL ZOOM submenu.
5. Select ON or OFF using the up or down button.
6. Press the OK button to confirm your choice and exit from the menu window.



NOTE:
This setting is also available in , , and modes.

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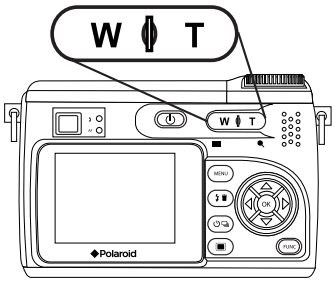
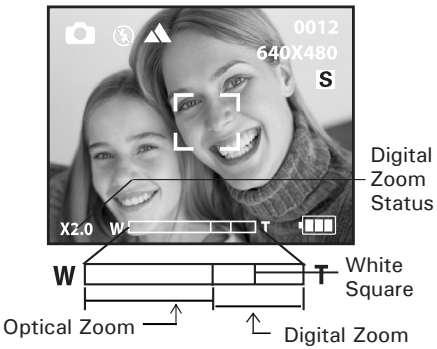
Zoom In or Out the Image

1. Turn the Mode Dial to AUTO.

2. Press the **T** or **W** button to zoom in or out the subject. While you press the **T** and **W** buttons, a white square will show on the zoom status bar as illustrated. The white square in the bar indicates the zoom status.





3. Keeping the **T** button pressed lets the camera switch from optical zoom to digital zoom when it reaches the maximum optical zoom. The digital zoom status is shown on the LCD screen.

4. Now you can take pictures and video clips, and playback them under the zoom setting. The zoom setting will remain after taking pictures and video clips. If you want to take a normal size picture or video clip, please use the **W** button.

NOTE:

- Zoom feature is not available in mode or during recording a video clip.
- This setting is also available in , , , and modes.
- Using the digital zoom may cause a decrease in image quality.

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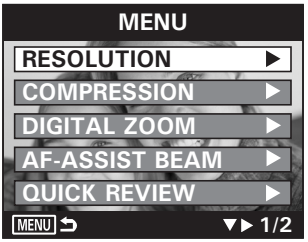
• Setting the Picture Resolution and Compression

Picture resolution refers to the number of pixels in a digital picture. Picture quality depends on the JPEG file compression that the camera applies when the picture is taken. Higher resolution and less compression makes better quality they occupy more memory space. Smaller size and normal quality pictures are easier to email while larger size and fine quality pictures are better for printing.

The x530 digital camera allows the user to choose between shooting in raw format or in JPEG format. X3F files are the raw format files from digital cameras that incorporate the Foveon X3 direct image sensor, which directly capture colour in three layers (red, green and blue) at every point in the image. In X3 direct image sensor, pixels are placed at these corresponding depths in the silicon to detect the red, green and blue light that has been absorbed. Capturing images using the X3 raw format provides you with greater flexibility in processing your image and allows you to retain as much control over the processing of your images as possible.

Resolution setting



1. Turn the Mode Dial to AUTO.
2. Press the MENU button to access the main menu. The RESOLUTION option is highlighted.
3. Press the right button to access the RESOLUTION submenu.
4. Select the resolution you prefer using the up or down button. Press the OK button to confirm your choice and exit from the menu window.

NOTE:

- 1408 x 1056 pixels is the default and optimal resolution setting. It is recomended to use this setting for printing.
- This setting is also available in , , , and modes.
- The Auto-Focus LED blinks after a picture is taken, indicating the camera is processing the picture. The resolution setting is temporarily disabled when the camera is processing the picture. This setting resumes for adjustment only when the LED turns off, which indicates the camera finishes processing the picture.

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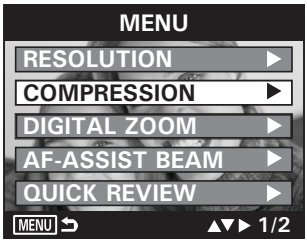
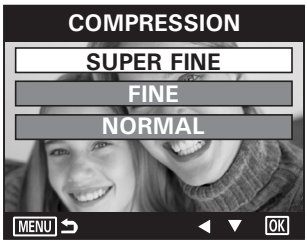
Compression setting

1. Turn the Mode Dial to AUTO.
2. Press the MENU button to access the main menu.



3. Press the down button to select the COMPRESSION option.
4. Press the right button to access the COMPRESSION submenu.
5. Select the compression you prefer using the up or down button. Press the OK button to confirm your choice and exit from the menu window.



The chart below indicates the approximate numbers of pictures you can expect the camera to hold at different resolution and quality setting based on the 32MB memory card. You can expand the memory using a commercially available memory card. Please refer to “Capacity of SD Card” on page 84 for further details.

Compression / Resolution	S Super Fine	F Fine	N Normal
2432 x 1824	10 pictures	24 pictures	42 pictures
2048 x 1536	13 pictures	34 pictures	43 pictures
1408 x 1056	24 pictures	59 pictures	90 pictures
640 x 480	107 pictures	215 pictures	324 pictures
X3F	3 pictures	---	---

NOTE:
- Scene complexity affects a picture’s file size. For example, a picture of trees in autumn has a larger file size than a picture of blue sky at the same resolution and quality setting. Therefore, the number of picture or the length of video clips you can store on a memory card may vary. The number of pictures on the LCD screen is for reference only.
- This setting is also available in , , , and modes.

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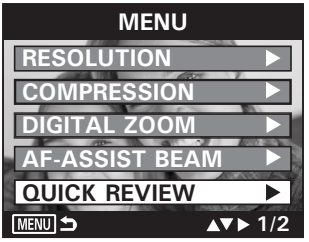
• Specifying the Quick Review Period

A quick review of pictures is available to set with options of 2 seconds and 5 seconds. Below shows to change the option.

1. Turn the Mode Dial to AUTO.
2. Press the MENU button to access the main menu.
3. Press the down button to select the QUICK REVIEW option.



4. Press the right button to access the QUICK REVIEW submenu.
5. Specify the quick view period using the up or down button.

2 SECONDS A 2-second quick view period. The picture just taken will be displayed on the LCD screen for two seconds.

5 SECONDS A 5-second quick view period. The picture just taken will be displayed on the LCD screen for five seconds.

6. Press the OK button to confirm your choice and exit from the menu window.

NOTE:
This setting is also available in , , , and modes.

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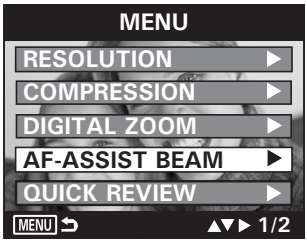
• Turning the Auto-Focus Assist Beam On and Off

Under this setting, you can turn the Auto-Focus assist beam on or off. When it is turned on, the focus lamp gives out a strong beam and helps the camera easily focus on the subject.

1. Turn the Mode Dial to AUTO.
2. Press the MENU button to access the main menu.
3. Press the down button to select the AF ASSIST BEAM option.
4. Press the right button to access the AF ASSIST BEAM submenu.



5. Select ON or OFF using the up or down button.
6. Press the OK button to confirm your choice and exit from the menu window.

NOTE:
This setting is also available in , , , and modes.

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• Selecting Focus Mode

1. Turn the Mode Dial to AUTO.
2. Press the MENU button to access the main menu.
3. Press the down button to select the FOCUS MODE option.
4. Press the right button to access the FOCUS MODE submenu.

5. Select AUTO or MANUAL using the up or down button.
6. Press the OK button to confirm your choice and exit from the menu window.

AUTO The camera automatically set the focus according to the shooting conditions when the Shutter button is halfway pressed.

MANUAL The camera can manually adjust the focus by pressing the up and down buttons.

NOTE:
This setting is also available in , , , and modes.

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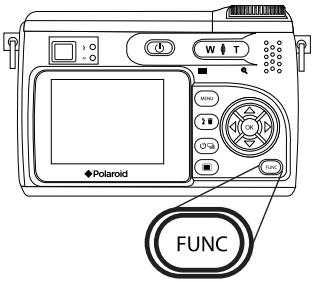
• Setting Exposure Compensation for Pictures

You can adjust the exposure compensation value (EV) within the range of −2EV to +2EV in order to compensate for current lighting conditions. This setting can be used to obtain better result when shooting with backlighting, indirect indoor lighting, a dark background, and so on.

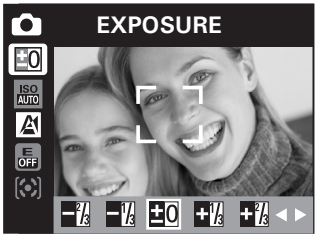
1. Turn the Mode Dial to AUTO.

2. Press the FUNC button to access the function bar.



3. Adjust the exposure compensation value using the left or right button.

4. The currently selected option will be accessed and takes effect immediately. Press the FUNC button to exit from the function bar.



NOTE:

- A higher EV is best used for light-coloured subjects and backlit subjects. A lower EV is best for dark-coloured subjects and for shooting outdoors on a clear day.
- When shooting under very dark or very bright conditions, you may not be able to obtain satisfactory results even if performing exposure compensation.
- This setting is also available in , , , , , and modes.

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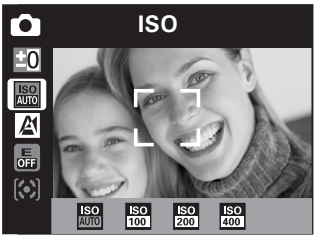
• Changing the ISO Speed

This function enables you to change the camera's sensitivity to light by selecting different ISO values. ISO is a measure of how quickly your camera reacts to light. The higher the ISO value, the less light needed to make an exposure, allowing the same exposure to be achieved with higher shutter speeds or smaller apertures. In a digital camera, higher ISO value allows higher shutter speed, at the expense of mottle or grain appearing in the final picture.

1. Turn the Mode Dial to AUTO.
2. Press the FUNC button to access the function bar.
3. Press the down button to select the ISO option.
4. Select the ISO speed using the left or right button.
5. The currently selected option will be accessed and takes effect immediately. Press the FUNC button to exit from the function bar.



ISO 100 / ISO 200 / ISO 400 — In the same lighting condition, the higher ISO value it is, the faster the shutter speed will be.

ISO AUTO — The camera's sensitivity is automatically changed by different lighting value or subject brightness.

NOTE:

- This setting is also available in , , , and modes.
- Increase in ISO value affects image quality with more noise. Use as low an ISO value as possible.

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• Setting White Balance for Pictures

Selecting the right type of white balance can help make the colours of a subject appear more natural under the type of lighting environment.

1. Turn the Mode Dial to AUTO.
2. Press the FUNC button to access the function bar.
3. Press the down button to select the WHITE BALANCE option.
4. Select the right type of white balance using the left or right button.
5. The currently selected option will be accessed and takes effect immediately. Press the FUNC button to exit from the function bar.

When shooting under these conditions	Select this setting	Icon shown on the LCD screen
Automatic adjustment	Auto	
Outdoor daylight	Daylight	
Cloudy	Cloudy	
Indoors, illuminated by light bulbs	Tungsten	
Indoors, illuminated by fluorescent lighting	Fluorescent	

NOTE:
This setting is also available in , , , , , and modes.

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• Setting Photo Effect

You can control the colour tones and moods of a picture in this setting.

1. Turn the Mode Dial to AUTO.
2. Press the FUNC button to access the function bar.
3. Press the down button to select the PHOTO EFFECT option.
4. Select the photo effect setting using the left or right button.
5. The currently selected option will be accessed and takes effect immediately. Press the FUNC button to exit from the function bar.

When shooting under these conditions	Select this setting	Icon shown on the LCD screen
For taking pictures with strong contrast and colour saturation.	Vivid	Vi
For taking pictures with neutral hues.	Neutral	Neu
For taking pictures with a brown and antique look.	Sepia	S
For taking black-and-white pictures.	Black & White	B/W
For taking pictures with a reddish hue.	Red	R
For taking pictures with a greenish hue.	Green	G
For taking pictures with a bluish hue.	Blue	B

NOTE:
This setting is also available in , , , and modes.

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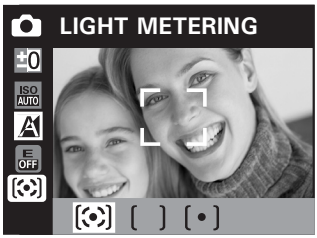
• Setting Light Metering

Use the light metering setting to ensure that the proper amount of light enters into the camera lens.

1. Turn the Mode Dial to AUTO.
2. Press the FUNC button to access the function bar.
3. Press the down button to select the LIGHT METERING option.
4. Select the metering method using the left or right button.
5. The currently selected option will be accessed and takes effect immediately. Press the FUNC button to exit from the function bar.



When shooting under these conditions	Select this setting	Icon shown on the LCD screen
Evaluates the lighting conditions throughout the picture to give an optimum picture exposure. Ideal for general picture taking.	Multiple	[•]
Evaluates the lighting conditions of the subject centred on the LCD screen. Ideal for backlit subjects.	Centre	[ ]
Similar to Centre, except the metering is concentrated on a smaller area of the subject centred on the LCD. Ideal when an exact exposure of a specific area in the picture is needed.	Spot	[•]

NOTE:
This setting is also available in , , , and modes.

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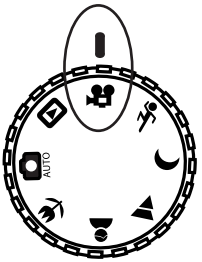
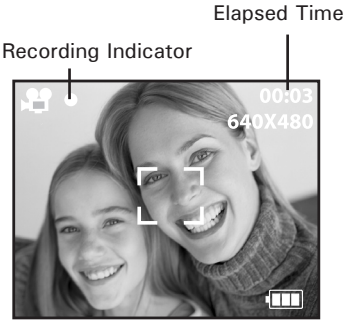
4 Recording Video Clips

• Recording Video Clips

Use the Video mode to record video clips with audio.



1. Turn the Mode Dial to 🎥.
2. Frame your subject using the viewfinder or LCD screen.
3. Press the Shutter button all the way to starting recording.
4. Press the Shutter button again to stop recording. Recording automatically stops when the maximum recording length is reached or the current memory is full.



While recording, the red ● icon on the LCD screen and the Auto-Focus LED blink. The recording time on the LCD screen will increase.

NOTE:

- The zoom feature is not available during recording video clips.
- The maximum length the camera can hold at either 640 x 480 or 320 x 240 pixels for each video clip is 3 minutes. These times may vary with scene complexity.
- Recording may stop unexpectedly if slow-recording cards, or cards formatted on a different camera or a computer, or cards which have had images recorded and deleted repeatedly are being used for recording video clips.

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• Setting Video Resolution

Video resolution refers to the number of pixels in a digital video clip. Video clip quality depends on the file resolution that the camera applies when the video clip is recorded. Higher resolution makes better quality while occupying more memory space.

1. Turn the Mode Dial to .
2. Press the (MENU) button to access the main menu. The RESOLUTION option is highlighted.
3. Press the right button to access the RESOLUTION submenu.

4. Select the resolution using the up or down button.
5. Press the (OK) button to confirm your choice and exit from the menu window.

Here are the approximate length of video clips you can expect the camera to hold at each setting based on the 32MB memory card. You can expand the memory with a commercially available memory card. Please refer to “Capacity of SD Card” on page 84 for further details.

Resolution:	640 x 480	Approx. 0.8 minute (10～15 fps)
	320 x 240	Approx. 0.9 minutes (30 fps)

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• Setting Exposure Compensation for Video Clips

You can adjust the exposure compensation value (EV) within the range of −2EV to +2EV in order to compensate for current lighting conditions. This setting can be used to obtain better result when shooting with backlighting, indirect indoor lighting, a dark background, and so on.

1. Turn the Mode Dial to .
2. Press the FUNC button to access the function bar.
3. Adjust the exposure compensation value using the left or right button.
4. The currently selected option will be accessed and takes effect immediately. Press the FUNC button to exit from the function bar.

NOTE:

- A higher EV is best used for light-coloured subjects and backlit subjects. A lower EV is best for dark-coloured subjects and for shooting outdoors on a clear day.
- When shooting under very dark or very bright conditions, you may not be able to obtain satisfactory results even if performing exposure compensation.

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• Setting White Balance for Video Clips

Selecting the right type of white balance can help to make the colour of a subject in the video clip appear more natural under the type of lighting that is available.

1. Turn the Mode Dial to .
2. Press the (FUNC) button to access the function bar.

3. Select the right type of white balance using the left or right button.

4. The currently selected option will be accessed and takes effect immediately. Press the (FUNC) button to exit from the function bar.

When shooting under these conditions	Select this setting	Icon shown on the LCD screen
Automatic adjustment	Auto	
Outdoor daylight	Daylight	
Cloudy	Cloudy	
Indoors, illuminated by light bulbs	Tungsten	
Indoors, illuminated by fluorescent lighting	Fluorescent	

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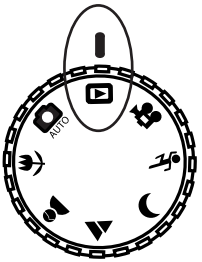
5 Managing Pictures and Video Clips

• Reviewing Pictures

Reviewing Pictures in Full Screen



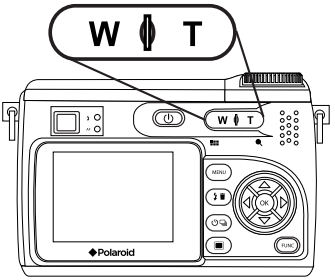
1. Turn the Mode Dial to ▶.
2. Use the left and right buttons to view the pictures taken.

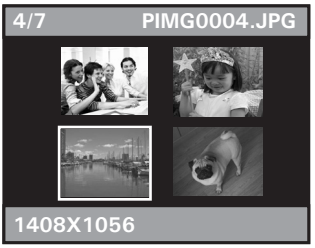
The ▶ icon is shown on the LCD screen when a picture is selected.

Reviewing Picture and Video Clip Files in Thumbnail

You can view up to four pictures and video clip files at a time on the LCD screen by using the thumbnail function.

1. Turn the Mode Dial to ▶.
2. Press the **W** button once and four thumbnail files will be shown on the LCD screen with the latest displayed file highlighted.
3. Use the up, down, left and right buttons to select a thumbnail file and view it in full screen by pressing the **T** button.





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Running a Slide Show

The slide show function enables you to view all picture and video clip files stored in the current memory repeatedly one by one on the LCD screen.

1. Turn the Mode Dial to ▶.
2. Press the MENU button to access the main menu.
3. Press the down button to select the SLIDESHOW option.
4. Press the right button to access the SLIDESHOW submenu.
5. Press the OK button to confirm your choice and exit from the menu window.

The slide show will automatically run from the currently displayed picture after you press the OK button. Press the OK button to stop the slide show.

NOTE:
The slide show will keep running as long as there is power supply. We recommend the use of AC power for an extended period use.

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• Rotating the Currently Displayed Picture

The currently displayed JPEG picture can be rotated for a better review angle on the LCD screen.

1. Turn the Mode Dial to ▶.
2. Press the left or right button to select the picture you want to manage.
3. Press the FUNC button to access the function bar.

4. Press the OK button to rotate the picture 90°.
5. Pressing the OK button each time will rotate the picture 90° clockwise.

NOTE:

- The original file may be retrieve by selecting the icon on the function bar and press the OK button.
- A new file will be created and saved onto the memory card by selecting the icon on the function bar and press the OK button.

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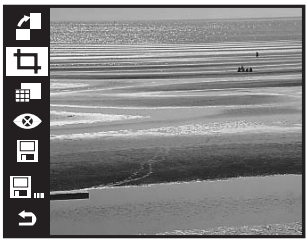
• Image Cropping

Under this setting, the currently displayed JPEG picture can be cropped to the size or location on the image.

1. Turn the Mode Dial to ▶.
2. Press the left or right button to select the picture you want to crop.
3. Press the FUNC button to access the function bar.
4. Press the down button to select the ⌗ icon. Press the OK button and a cropping rectangle will appear.



5. Use the **T** button to enlarge the rectangle and use the **W** button to return it to the normal size.
6. Use the up, down, left and right buttons to move the rectangle around.

7. Press the OK button and the cropped picture will be shown on the LCD screen.

NOTE:

- The original file may be replaced by selecting the 💾 icon on the function bar and press the OK button.
- A new file will be created and saved onto the memory card by selecting the 💾... icon on the function bar and press the OK button.

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• Enhancing the Image

1. Turn the Mode Dial to ▶.
2. Press the left or right button to select the JPEG picture you want to manage.
3. Press the FUNC button to access the function bar.
4. Press the down button to select the icon.

5. Press the OK button.
6. Press the left or right button to select the option you want.

Option 1 Colour enhancement. To find the average lightest and darkest pixels in an image and uses them to maximize contrast while minimizing clipping.

Option 2 Contrast enhancement. To enhance monochromatic contrast clips all channels identically. This preserves the overall colour relationship while making highlights appear lighter and shadows darker.

Option 3 Level enhancement. To enhance per channel contrast maximizes the tonal range in each channel to produce a more dramatic correction.

Original To exit to the function bar, use the left or right button to choose this option and then press the OK button to confirm.

7. Press the OK button and the enhanced picture will be shown on the LCD screen.

NOTE:

- The original file may be replaced by selecting the icon on the function bar and press the OK button.
- A new file will be created and saved onto the memory card by selecting the icon on the function bar and press the OK button.

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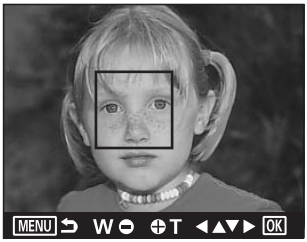
• Red-eye Removal

Under this setting, red-eye glare in your subject's eyes may be removed from the image.

1. Turn the Mode Dial to ▶.
2. Press the left or right button to select the JPEG picture you want to manage.
3. Press the FUNC button to access the function bar.
4. Press the down button to select the icon. Press the OK button and a small frame will appear.

5. Use the **W** button to shrink the frame and use the **T** button to return it to the normal size.
6. Use the up, down, left and down buttons to move the frame around and frame the red-eye glare inside.
7. Press the OK button and the enhanced image will be shown on the LCD screen.



8. Press the OK button.

NOTE:

- The original file may be replaced by selecting the icon on the function bar and press the OK button.
- A new file will be created and saved onto the memory card by selecting the icon on the function bar and press the OK button.

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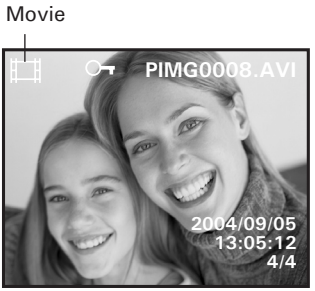
• Playing the Video Clip

1. Turn the Mode Dial to ▶.
2. Use the left and right button to select the video clip you want to play.
3. Press the (OK) button to start playing the selected video clip, and press again to stop.

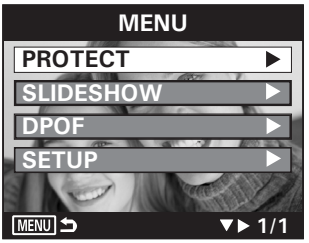
The 🎞 icon is shown on the LCD screen when a video clip is selected.



• Protect or Unprotect the Selected Picture or Video Clip

Use the left or right button to select the picture or video clip you want to protect or unprotect.

1. Turn the Mode Dial to ▶.
2. Press the (MENU) button to access the main menu. The PROTECT option is highlighted.
3. Press the right button to access the PROTECT submenu.



4. Select ON or OFF using the up or down button.
5. Press the (OK) button to confirm your choice and exit from the menu window.

OFF To remove protection from the selected protected file. The 🔑 icon will disappear from the LCD screen.

ON To protect the selected file. The 🔑 icon will appear on the LCD screen.

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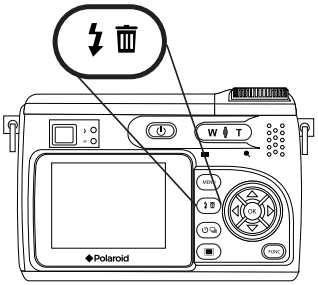
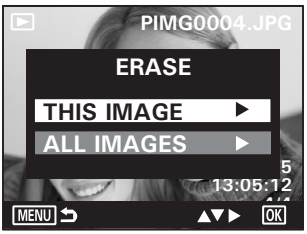
• Deleting Picture(s) and Video Clip(s)

1. Turn the Mode Dial to ▶.
2. Press the (⚡🗑) button to access the ERASE submenu.
3. Select THIS IMAGE or ALL IMAGES using the up or down button.

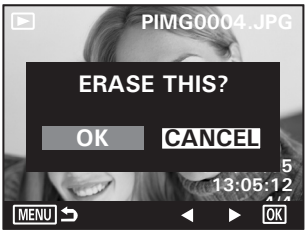




THIS IMAGE Erase the selected picture or video clip. Please select the picture or video you want to delete before pressing the Erase button.

ALL IMAGES Erase all pictures and video clips stored in the current memory.

4. Press the right button.
5. Select OK or CANCEL using the left or right button.



NOTE:
- Protected files can not be deleted. Remove protection before deleting.
- All deleted pictures and video clips cannot be recovered.

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• View Pictures and Video Clips on a TV

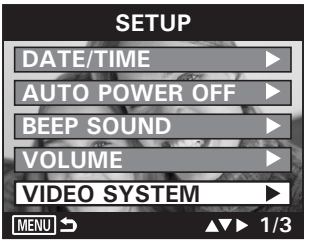
Setting Video System

The video output signal (NTSC or PAL) can be switched to accommodate different signal systems. For example, NTSC for U.S.A., Canada, Taiwan, Japan, and so on, and PAL for Europe, Asia (excluding Taiwan), and so on.

You can choose the video output system according to the following steps:

1. Follow the guidelines in "Setup Menu" on page 20 to access the SETUP menu.

2. Select the VIDEO SYSTEM option using the down button.



3. Press the right button to access the VIDEO SYSTEM submenu.

4. Select the video system using the up or right button. Press the (OK) button to confirm your choice and exit from the menu window.

NOTE:
This setting is only available when the camera is connected with the TV via the video cable.

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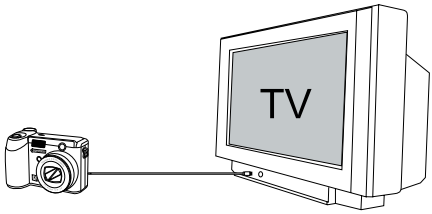
Connecting to a TV

When the camera is connected to a TV, the LCD screen is not active and the TV screen now performs as the LCD screen.

1. Connect the camera to a TV via the video cable (supplied) as illustrated.

2. Select the correct video system.

3. Turn the Mode Dial to ▶ and you can review all the pictures and video clips stored in the current memory on the TV.



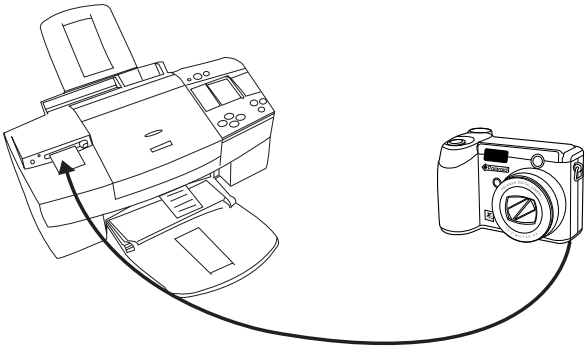
NOTE:

- It is recommended to use AC adaptor when the camera is connected to a TV.
- No shooting operation is available when the camera is connected to a TV.

• About DPOF

DPOF stands for "Digital Print Order Format", which is a format for recording on a memory card or other medium which digital camera images should be printed and how many copies of the image should be printed. Then you can print on a DPOF-compatible printer or at a professional print service from the memory card in accordance with the file name and number of copies settings recorded on the card.

With this camera, you should always select images by viewing them on the LCD screen. Do not specify images by file name without viewing the file contents.



IMPORTANT!
DPOF print settings can be configured for images on a memory card only.

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Printing Setting

1. Turn the Mode Dial to ▶.
2. Press the MENU button to access the main menu.
3. Press the down button to select the DPOF option.

4. Press the right button to access the DPOF submenu.
5. Select SELECT IMAGE or ALL IMAGES using the up or down button.

SELECT IMAGES The selected picture in the memory card will be printed up to 50 copies.

ALL IMAGES All pictures in the memory card will be printed up to 50 copies for each picture.

6. Press the OK button to enter the next submenu.
7. Specifying the number of printing copy using the up or down button.
8. Press the OK button to confirm your choice and exit from the menu window.

NOTE:

- You cannot select video clips under DPOF setting.
- Printing setting is supported by a SD card insertion. Please make it sure you have inserted a SD card before printing pictures.
- X3F image files cannot be printed under the DPOF setting.

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7 Installing the Software Onto a Computer

• Installing the Software

For Windows® Users: PC

IMPORTANT!

- Please backup all the necessary data before any driver and software installation.
- The CD-ROM is tested and recommended to use under English Windows OS.
- Please restart the computer after installing the software.

IMPORTANT! (For Windows® 98SE)
Windows® 98SE needs to install the x530 Camera Driver for Mass Storage function. After the installation, please restart the Windows before connecting the camera to the PC.

IMPORTANT! (For Windows® Me, 2000, XP)
Directly plug-in the camera to transfer and play the pictures and video clips. No need to install the driver.

IMPORTANT!

- It is only necessary to install the Card Reader Driver for Windows 98SE only. For Windows Me, 2000, XP, it is not necessary to install the driver, the operating system will automatically recognize the Card Reader.
- For Windows Me, 2000, XP user, installing the Card Reader Driver in the Windows Me, 2000, XP may cause the Card Reader mis-function. Please uninstall the Card Reader Driver and restart the computer to solve this problem. For more detail about uninstall the Card Reader Driver, please read “Uninstalling Card Reader Driver (PC Only)” on page 86.

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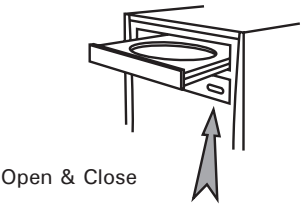
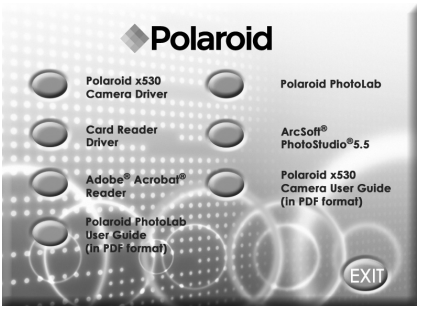
1. Before you begin, close all other software applications open on your computer.

2. Insert the CD supplied into the computer CD-ROM Drive.

3. The CD User Interface Screen will automatically launch.

4. With the mouse, click on each software interface button in turn and follow the on-screen instructions.





NOTE:
If the setup screen does not appear after loading the CD, then you can manually start it by double clicking the "My Computer" icon on your desktop, then double clicking the icon for the CD-ROM drive. When the CD-ROM window opens, double clicking the "INSTALL-E.EXE" icon.

For Macintosh Users: Mac

1. Before you begin, close all other software applications open on your computer.
2. Insert the CD supplied into the computer CD-ROM Drive.
3. Double click the CD-ROM icon "Polaroid".
4. Install the software included.

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• Software Included with Your Camera

x530 Camera Driver *Plug & Play removable disk* (For Windows® 98SE)
Easy to use, just plug the camera to a computer and use it as a removable disk. Use the ArcSoft® PhotoStudio® to edit and print the pictures. Only install for Windows® 98SE.

Polaroid PhotoLab *Picture Editing Software*
Polaroid PhotoLab featuring with the Foveon X3 Fill Light. When pictures is captured in raw (X3F) format, a simple slide-bar tool turns images taken in difficult lighting situation into vibrant, pleasing pictures.

It can view the raw (X3F), JPEG, TIFF format pictures. But the image editing feature can only apply to the X3F file only. For more details of the Polaroid PhotoLab, please read the Polaroid PhotoLab user guide.

Card Reader Driver (For Windows® 98SE)
With the card reader, the user can download the photos which are saved in the SD card to the computer via the card reader. Only install for Windows® 98SE.

ArcSoft® PhotoStudio® *Picture Editing Software*
ArcSoft® PhotoStudio® is an easy-to-use and powerful image-editing software loaded with everything you need to fix, print, and get creative with your digital pictures. This program gives you quick access and all-at-once enhancement to the pictures on your computer, for example, removing red-eye and cloning objects to a different picture. In some quick actions, you could also add special effects or place them in cards, calendars, frames and fantasy templates. ArcSoft® PhotoStudio® also includes a wide variety of printing options.

Adobe® Acrobat® Reader.*PDF File Reading Software*
Adobe® Acrobat® Reader lets you view and print Adobe Portable Document format (PDF) files on all major computer platforms, as well as fill in and submit Adobe PDF forms online.

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• Computer System Requirements

For acceptable picture transfer and editing performance, we recommend the following minimum requirements;

For Windows® Users: PC

- Compatible with Microsoft® Windows® 98SE, Me, 2000 or XP
- Pentium III 800 MHz or higher
- 256 MB RAM (512 MB DDR RAM recommended)
- 400MB of available hard disk space
- DirectX 9.0 or higher
- USB Port
- Colour monitor with high colour (16-bit) graphic capability or higher
- CD-ROM drive
- Standard mouse and keyboard
- Stereo speaker

For Macintosh Users: Mac

- PowerPC® Processor
- Mac OS Version 9.2~X
- USB Port
- 256MB RAM OS 9 or 512MB RAM Mac OS X
- 400MB free disk space
- Colour monitor with high colour (16-bit) graphic capability or higher
- CD-ROM drive
- Standard mouse and keyboard
- Stereo speaker

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8 Transferring Pictures and Video Clips to a Computer

• Before you Transfer Pictures

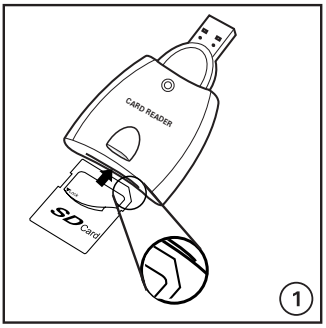
IMPORTANT! (For Windows® 98SE Only)
Before you transfer your pictures make sure you have installed the Polaroid x530 Camera Driver from the CD. Please refer to "Installing the Software onto a Computer" on page 68.

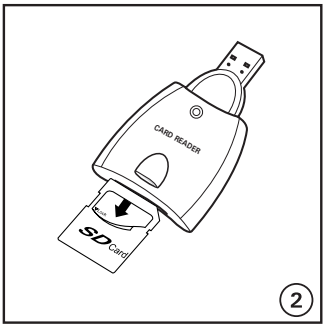
• Transferring Pictures and Video Clips via the Card Reader

Inserting and Removing the SD card

IMPORTANT!
Disconnect the card reader from the computer or other external device before inserting the SD card into or removing it out of the card reader

1. Insert the SD card, ensuring the card is inserted correctly as illustrated (Diagram 1).
2. To remove the SD card, pull it out of the card reader as illustrated (Diagram 2).





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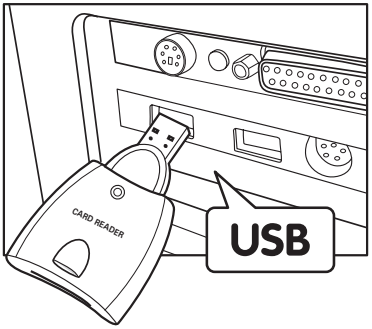
Connect the Card Reader to Your Computer



Connect the USB port on the card reader to the ⇐ marked socket on your computer as illustrated.

1. The Status LED will light up and remains steady on, indicating a successful connection with the computer.
2. An interface “Found New Hardware” will show on the computer desktop.
3. A removable disk drive will be installed onto your computer automatically.

IMPORTANT!
To properly disconnect the card reader from the computer, click on the connection icon on the tool bar. A “Stop USB Mass Storage Device - Drive (E)” indicator will appear. Click this indicator and a “Safe To Remove Hardware” interface will appear. Click “OK” and the Status LED will turn off. Plug the card reader off the computer.

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Transferring Pictures and Video Clips via the Card Reader

NOTE:

- ArcSoft PhotoStudio software does not support the X3F file. Please use the Polaroid PhotoLab to open the X3F file and save it in the JPEG or TIFF format. Then it can be edited by the ArcSoft PhotoStudio software.
- ArcSoft PhotoStudio is a photo-editing software for a wide range of image formats (JPEG, TIFF, BMP, GIF, and so on), but not for the X3F format. For X3F raw files, the Polaroid PhotoLab software can edit them, and change them from X3F to either JPEG or TIFF format for further edition using PhotoStudio software.

For Windows® Users: **PC**

1. Insert the SD card into the card reader.
2. Connect the card reader to your computer.
3. Double click on "My Computer" on your PC desktop and you will see a "Removable Disk" drive.
4. Double click on "Removable Disk" —> double click "DCIM" —> double click any directory folder under "DCIM".
5. All the pictures and video clips are in the directory folder. Highlight the pictures and video clips, and drag them to a folder of your choice. You can also create sub-folder to group them or use the ArcSoft software to edit and manage the pictures (JPEG) or video clips, or use the Polaroid PhotoLab to edit the X3F file.

For Macintosh Users: **Mac**

1. Insert the SD card into the card reader.
2. Connect the card reader to your computer.
3. The systems will automatically recognize the MASS STORAGE drive. (System will automatically create a Mass Storage named "unlabelled")
4. Double click the folder "unlabelled" to enter sub-folder "DCIM".
5. Double click the folder "DCIM" and then any sub folder inside.
6. You can copy the pictures and video clips from this directory folder and paste to the hard disk.

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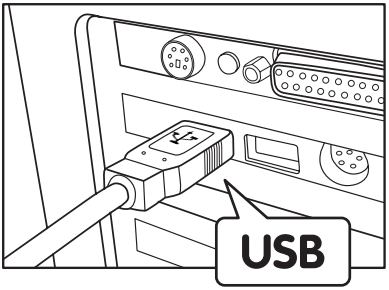
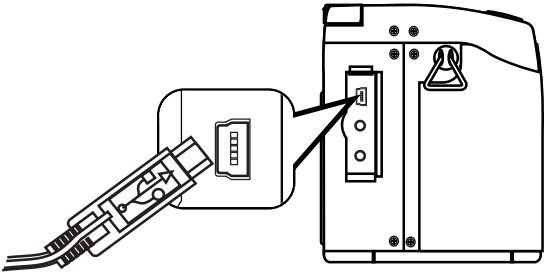
• Connecting the Camera to Your Computer via USB Cable

Connecting with the USB cable.



USB Series “A” plug connects to your computer



USB Series “Mini B” plug connects to your camera

1. Turn the camera off.
2. Plug the labelled end of the USB cable into the marked socket on your computer.
3. Plug the other end of the USB cable into the port on your camera.
4. Turn on the camera and an interface “Found New Hardware” will show on the computer desktop.
5. A removable disk drive will be installed onto your computer automatically.

NOTE:
It is recommended to use AC adaptor when the camera is connected to a computer.

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• Transferring Pictures and Video Clips via USB Cable

NOTE:
ArcSoft PhotoStudio software does not support the X3F file. Please use the Polaroid PhotoLab to open the X3F file and save it in the JPEG or TIFF format. Then it can be edited by the ArcSoft PhotoStudio software.

For Windows® Users: **PC**

NOTE:
You can transfer pictures and video clips in any mode.

1. Connect the camera to a computer via the USB cable.
2. Double click on "My Computer" on your PC desktop and you will see a "Removable Disk" drive.
3. Double click on "Removable Disk" —> double click "DCIM" —> double click any directory folder under "DCIM".
4. All the pictures and video clips are in the directory folder. Highlight the pictures and video clips, and drag them to a folder of your choice. You can also create sub-folder to group them or use the ArcSoft software to edit and manage the pictures (JPEG) or video clips, or use the Polaroid PhotoLab to edit the X3F file.

For Macintosh Users: **Mac**

NOTE:
For Mac users, directly plug-in the camera, no need to install the driver.

1. Set the camera to Playback mode.
2. Connect the camera to Mac via the USB cable, the systems will automatically recognize the MASS STORAGE drive. (System will automatically create a Mass Storage named "Unlabelled")

NOTE:
This drive name will vary from different version of Mac OS system.

3. Double click the folder "Unlabelled" to enter sub-folder "DCIM".
4. Double click the folder "DCIM" and then any sub folder inside.
5. You can copy the pictures and video clips from this directory folder and paste to the hard disk.

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9 Troubleshooting Problems

• Troubleshooting

The troubleshooting guide is designed to help you. If problems continue, please contact customer support. Details are provided under “Getting Help”.

For Windows® Users: **PC**

Symptom	Problem	Solution
I receive an error message when I am installing “Polaroid x530 Camera Driver”.	“Polaroid x530 Camera Driver” does not load.	Shut down all other applications and attempt to reinstall the driver.
		Check to see if the USB controller in your BIOS if it is activated. Please refer to Polaroid web site for how to active USB controller in BIOS.
I cannot upload images to my computer.	Connection failure.	Check all cable connection are secured. or Check whether the card reader is properly plugged to the computer.
	Camera Driver is not installed.	You need to install the camera driver for Windows 98SE systems.

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Symptom	Problem	Solution
I cannot run the "Polaroid x530 Camera Driver".	Conflict with another camera driver or capture device.	If you have another camera installed on your computer, remove it and its driver completely from your system to avoid conflicting with your x530.
My CD Installation Wizard does not work.	The auto installation file is switched off or the CD-ROM is disconnected.	Go to the computer desktop. Right click on "My Computer". Click "Properties". Select "Device Manager". Double click on "CD-ROM", double click on "CD-R (normally the manufacturer's name), Click on "Settings". Ensure both "Auto insert notification" and the "disconnect" are ticked. If you change the settings the computer will ask you to restart your PC. Click "Yes".
Images do not show on TV.	Video cable is not connected correctly.	Make sure the video cable is connected to the TV "Video In" socket.
Images on the TV screen do not display in colour.	Wrong system selection.	Change to NTSC or PAL.

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Symptom	Problem	Solution
I cannot activate my digital camera by pressing the ⏻ button.	Insufficient battery power or battery is missing.	Recharge your battery or place your battery into the camera.
	Battery door is not closed.	Make sure the battery door is securely closed.
Camera suddenly powers off.	Auto Power Off function is activated. Or The battery is exhausted.	Turn the camera on. Or Recharge your battery.
Image is not recorded when the Shutter button is pressed.	Camera is turned off. Or Flash unit is charging. Or Memory is full.	Turn the camera on. Or Wait until flash unit charging finishes. Or Delete images you no longer need, or use another memory card.
Camera powers off duing self-timer countdown.	The battery is exhausted.	Recharge your battery.
LCD screen image is out of focus.	mode or mode is used for landscape. Or Normal focus is being used for macro images.	Select a correct scene shooting mode for taking pictures.
AVI file cannot be played.	DirectX version is lower than 9.0	Install DirectX 9.0 or above. Visit http://www.microsoft.com/directx for more details.
The camera is detected by the Windows and works properly. But a drive letter of the Removable Disk is not created.	The removable disk crashes with the network drives.	Disconnect the crashed network drive and reserve this drive letter for the camera.
ArcSoft PhotoStudio can not automatically detect or view the X3F file.	ArcSoft PhotoStudio does not support the X3F file format.	Use the Polaroid PhotoLab to convert the X3F file to the JPEG or TIFF format. Then ArcSoft PhotoStudio can open the file in JPEG or TIFF format.
There is no response from the camera while pressing any buttons.	The LCD screen is frozen or the camera is hanged.	Remove and re-install the battery or batteries to reset the camera. Your valuable data stored in the camera will not be lost.

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Symptom	Problem	Solution
Recorded pictures are not saved in memory.	Camera powers off before the save operation is completed. Or Removing the memory card before the save operation is completed.	If the battery is exhausted, recharge your battery. Or Do not remove the memory card before the save operation is completed.
The camera cannot take pictures.	The flash is recharging. Or The SD card is not formatted correctly. Or The camera is set to the ▶ mode. Or The SD card Memory is full.	Wait until completing recharging the flash. Or The SD card may be damaged. Please use a new card. Or Set the camera in AUTO, , , , or mode. Or Delete images you no longer need, or use another memory card.
Colour of the playback pictures is different from the picture on the LCD screen during recording.	Sunlight or light from aother source is shinning directly into the lens during recording.	Position the camera so that sunlight does not shine directly onto the lens.
Pictures are not diplayed.	A memory card with non-DCF pictures recorded with another camera is loaded in the camera.	The camera cannot display non-DCF pictures recorded onto a memory card used by another digital camera.
I cannot erase pictures.	All the pictures in the current memory are protected.	Unprotected the pictures and video clips you want to erase.
LCD screen does not apear on the screen of the connected television.	There is a problem with the camera-TV connection. Or TV setup is wrong. Or Video system is incompatible.	Use the supplied video cable to connect the camera to the TV. Or Consult the documentation of the TV and set it to video mode. Or Select the proper video output system.

Please also refer to the help files & User Guides that accompany the enclosed applications.
For further information and support, please visit our web site: http://www.polaroid-digital.com

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10 Getting Help

• Polaroid-digital Online Services

Web site: http://www.polaroid-digital.com

• Card Reader Help

Contact Person: Venson Hsiao
Phone number: +886 2 2698 9222
Fax number: +886 2 26989 9228
e-mail address: venson@a-tecsubsystem.com

• ArcSoft Software Help

For North America
ArcSoft HQ Support Centre
(Fremont California, CA)
Tel: 1-800-762-8657
(toll free number)
Fax: 1-510-440-1270
E-mail: support@arcsoft.com

For South & Central America
Tel: 1-510-979+5520
Fax: 1-510-440-1270
E-mail:latInsupport@arcsoft.com

For China
ArcSoft China Support
Centre (Beijing)
Tel: 8610-6849-1368
Fax: 8610-6849-1367
E-mail: china@arcsoft.com

For Japan
ArcSoft Japan Support Centre (Tokyo)
Tel: +81-03-3834-5256
Fax: +81-03-5816-4730
Web: http://www.mds2000.co.jp/arcsoft
E-mail: japan@arcsoft.com and
support@mds2000.com

For Oceania
ArcSoft Australian
Support Centre
(Baulkham Hills,
New South Wales)
Tel: 61 (2) 9899-5888
Fax: 61 (2) 9899-5728
E-mail: support@supportgroup.com.au

For Europe/Middle East/
Africa & Rest of the World
ArcSoft Europe Support Centre
(Ireland)
Tel: +353-(0) 61-702087
Fax: +353-(0) 61-702001
E-mail: europe@arcsoft.com

Visit http://www.arcsoft.com for technical support and frequently asked questions (FAQ's).

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11 Appendix

• Technical Specifications

<table>
<tr><td>Picture Resolution</td><td colspan="4">• Sensor
- 1/1.8 inch
- 4.5 Mega Pixels CMOS
• Resolution & Storable Images (based on 32 MB SD card)</td></tr>
<tr><td></td><td>Compression / Resolution</td><td>Super Fine</td><td>Fine</td><td>Normal</td></tr>
<tr><td></td><td>2432 x 1824</td><td>10 pictures</td><td>24 pictures</td><td>42 pictures</td></tr>
<tr><td></td><td>2048 x 1536</td><td>13 pictures</td><td>34 pictures</td><td>43 pictures</td></tr>
<tr><td></td><td>1420 x 1060</td><td>24 pictures</td><td>59 pictures</td><td>90 pictures</td></tr>
<tr><td></td><td>640 x 480</td><td>107 pictures</td><td>215 pictures</td><td>324 pictures</td></tr>
<tr><td></td><td>X3F</td><td>3 pictures</td><td>---</td><td>---</td></tr>
<tr><td>Lens</td><td colspan="4">• Type: 7 groups, 10 elements
• Aperture: F 1:2.6 ~ 3.4
• Focal Length: 7.3 ~ 21.9 mm
• Focal Distance:
- Far (Landscape) Focus AF:
Wide: 13 ft to infinity (4 m to infinity)
Telephoto: 82 ft to infinity (25 m to infinity)
- Normal Focus AF: 9 in. to infinity (23 cm to infinity)
- Macro Focus AF: 0.4 ~ 9 in. (1 ~ 23 cm)
(The focusing range is the distance from the lens surface to the subject.)
• Focus Zone: Centre-zone</td></tr>
<tr><td>LCD Screen</td><td colspan="4">2.0” TFT colour panel</td></tr>
<tr><td>Built-in Flash</td><td colspan="4">• Modes
- Flash Off, Auto Flash, Red-eye Reduction, Forced On
• Flash Range:
Normal: Wide: 3 ~ 10 feet (0.9 ~ 3 metres)
Telephoto: 3 ~ 8 feet (0.9 ~ 2.4 metres)
Macro: 0.4 ~ 9 in. (1 ~ 23 cm)</td></tr>
<tr><td>Exposure Control</td><td colspan="4">-/+ 2 EV in 1/3 increments</td></tr>
<tr><td>ISO Speed</td><td colspan="4">Auto, 100, 200, 400</td></tr>
<tr><td>Shutter Speed</td><td colspan="4">Mechanical shutter 1/1000 sec. ~ 1/2 sec.</td></tr>
<tr><td>White Balance</td><td colspan="4">Auto, Daylight, Cloudy, Tungsten, Fluorescent</td></tr>
<tr><td>Storage</td><td colspan="4">External Memory
- 32MB SD card (included)
- Supports SD card</td></tr>
</table>

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File Format	• Still Image - RAW (X3F format), EXIF 2.2 compatible format (JPEG compression) • Video Clip: AVI format
Power Supply	One lithium ion rechargeable battery (Model No.: Li10, included)
Self-timer	2 or 10 seconds
Tripod Socket	Yes
Connectivity	- With computer via USB cable (included) - With computer via SD card reader (included) - With TV via video cable (included)
Dimension	• Size: (W) 105 mm x (D) 61 mm x (H) 71 mm • Weight: Approximately 238g excluding batteries or card
Operating System	• For Windows® Users: Microsoft® Windows® 98SE, Me, 2000 or XP • For Macintosh Users: Mac OS 9.2~X

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• Capacity of SD Card

Resolution \ Compression		Super Fine Pictures can be taken	Fine Pictures can be taken	Normal Pictures can be taken
64MB	2432 x 1824	20 pictures	48 pictures	84 pictures
	2048 x 1536	26 pictures	68 pictures	86 pictures
	1408 x 1056	48 pictures	118 pictures	180 pictures
	640 x 480	214 pictures	430 pictures	648 pictures
	X3F	6 pictures	---	---
128MB	2432 x 1824	40 pictures	96 pictures	168 pictures
	2048 x 1536	52 pictures	136 pictures	172 pictures
	1408 x 1056	96 pictures	236 pictures	360 pictures
	640 x 480	428 pictures	860 pictures	1296 pictures
	X3F	12 pictures	---	---
256MB	2432 x 1824	80 pictures	192 pictures	336 pictures
	2048 x 1536	104 pictures	272 pictures	344 pictures
	1408 x 1056	192 pictures	472 pictures	720 pictures
	640 x 480	856 pictures	1720 pictures	2592 pictures
	X3F	24 pictures	---	---
512MB	2432 x 1824	160 pictures	384 pictures	672 pictures
	2048 x 1536	208 pictures	544 pictures	688 pictures
	1408 x 1056	384 pictures	944 pictures	1440 pictures
	640 x 480	1712 pictures	3440 pictures	5184 pictures
	X3F	48 pictures	---	---
1GB	2432 x 1824	320 pictures	768 pictures	1344 pictures
	2048 x 1536	416 pictures	1088 pictures	1376 pictures
	1408 x 1056	768 pictures	1888 pictures	2880 pictures
	640 x 480	3424 pictures	6880 pictures	10368 pictures
	X3F	96 pictures	---	---

SD Card \ Resolution	640 x 480 pixels	320 x 240 pixels
64MB	1.6 minutes	1.8 minutes
128MB	3.2 minutes	3.6 minutes
256MB	6.4 minutes	7.2 minutes
512MB	12.8 minutes	14.4 minutes
1GB	25.6 minutes	28.8 minutes

NOTE:
Scene complexity affects a picture's file size. For example, a picture of trees in autumn has a larger file size than a picture of blue sky at the same resolution and quality setting. Therefore, the number of pictures and the length of video clips you can store on a memory card may vary.

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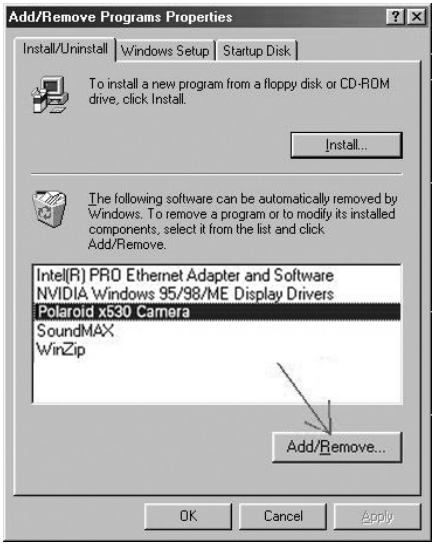
• Uninstalling Polaroid x530 Camera Driver (PC Only)

For Windows® 98SE Users: PC

NOTE:
The following driver uninstall procedure is for Windows 98SE users only because only Windows 98SE needs to install the x530 driver.

1. Open Add / Remove Program Properties in Control Panel and select “Polaroid x530" program, then click “Add / Remove” .
2. The following dialogue box appears, click "OK" to confirm removing the camera driver.
3. The uninstallation program runs automatically, please restart your computer when it is finished.


Add/Remove Programs Properties
Install/Uninstall
Windows Setup
Startup Disk
To install a new program from a floppy disk or CD-ROM drive, click Install.
Install...
The following software can be automatically removed by Windows. To remove a program or to modify its installed components, select it from the list and click Add/Remove.
Intel(R) PRO Ethernet Adapter and Software
NVIDIA Windows 95/98/ME Display Drivers
Polaroid x530 Camera
SoundMAX
WinZip
Add/Remove...
OK
Cancel
Apply

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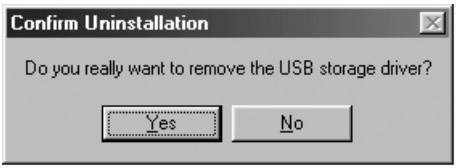
• Uninstalling Card Reader Driver (PC Only)

1. Open Add / Remove Program Properties in Control Panel and select the "USB Storage Driver" program. Then click "Add / Remove".
2. The following dialogue box appears. Click "OK" to confirm removing the card reader driver.
3. The uninstallation program runs automatically. Please restart your computer when it is finished.

Add/Remove Programs Properties
Install/Uninstall
Windows Setup
Startup Disk
To install a new program from a floppy disk or CD-ROM drive, click Install.
Install...
The following software can be automatically removed by Windows. To remove a program or to modify its installed components, select it from the list and click Add/Remove.
ATI Display Driver
Intel(R) PRO Ethernet Adapter and Software
NVIDIA Windows 95/98/ME Display Drivers
SoundMAX
SoundMAXWDM
USB Storage Driver
Add/Remove...
OK
Cancel
Apply



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• Camera Default Settings

Camera Mode	Description	Default
	Image Resolution	1408 x 1056
	Compression	Super fine
	Digital Zoom	Off
	AF Assist Beam	On
	Quick Review	2 seconds
	Focus Mode	Auto
	Exposure Compensation	0
	ISO Sensitivity	Auto
	White Balance	Auto
	Photo Effect	Off
	Light Metering	Matrix
	Resolution	640 x 480
	Exposure Compensation	0
	White Balance	Auto
Setup Mode	Date Format	YY/MM/DD
	Auto Power Off	1 minute
	Beep Sound	On
	Video System	NTSC
	Language	English
	Date Stamp	Off
	LCD Brightness	Auto
	Sequence Number	Off
	Opening Image	On

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• Using Your Battery

Limit the following activities that reduces battery life:
- Reviewing your pictures on the LCD screen.
- Using the LCD screen to take pictures (Use the optical viewfinder to frame pictures).
- Excessive use of the flash.

WARNINGS!
- Battery should be replaced by an adult.
- Insert the battery with the correct polarity.
- Remove exhausted battery from the camera immediately.
- Do not short the supply terminals.
- Do not dispose the battery in fire.
- Remove battery from the camera when not in use.
- Batteries life varies depends on the camera usage.
  These instructions should be retained for future reference.

• Tips, Your Safety & Maintenance

Your Camera should only be operated within the following environmental conditions;
- 32 - 104º Fahrenheit; 0 - 40º Celsius
- 15% - 90% relative humidity, non condensing

Battery life or image quality may be affected outside these conditions.

AC Adaptor
The AC Adaptor carries voltage which can be dangerous if live parts are exposed.
We recommend that you regularly examine the AC adaptor for any breakage. NEVER try to repair or open the AC adaptor.

⚠ Camera Cautions
- NEVER immerse any part of the Camera or its accessories into any fluid or liquid.
- ALWAYS disconnect the Camera from your PC or TV before cleaning it.
- ALWAYS remove dust or stains with a soft cloth dampened with water or neutral detergent.
- NEVER place hot items on the surface of the Camera.
- NEVER attempt to open or disassemble Camera as this will affect any warranty claim.

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• Regulatory Information

FCC Notice

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.
Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is needed.
- Consult the dealer or an experienced radio / TV technician for help.

Shielded cable must be used with this unit to ensure compliance with the Class B FCC limits.

Under the environment with electrostatic discharge, the product may malfunction and require user to reset the product.

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